



SEQUENCE LISTING

<110> Bistrup, Annette
Rosen, Steven D.
Tangemann, Kirsten
Hemmerich, Stefan

<120> GLYCOSYL SULFOTRANSFERASE-3

<130> UCAL-107DIV

<150> 09/190,911

<151> 1998-11-12

<150> 09/045,284

<151> 1998-03-20

<160> 8

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 386

<212> PRT

<213> H. sapiens

<400> 1

Met	Leu	Leu	Pro	Lys	Lys	Met	Lys	Leu	Leu	Leu	Phe	Leu	Val	Ser	Gln
1				5				10						15	
Met	Ala	Ile	Leu	Ala	Leu	Phe	Phe	His	Met	Tyr	Ser	His	Asn	Ile	Ser
			20					25					30		
Ser	Leu	Ser	Met	Lys	Ala	Gln	Pro	Glu	Arg	Met	His	Val	Leu	Val	Leu
		35					40					45			
Ser	Ser	Trp	Arg	Ser	Gly	Ser	Ser	Phe	Val	Gly	Gln	Leu	Phe	Gly	Gln
	50				55					60					
His	Pro	Asp	Val	Phe	Tyr	Leu	Met	Glu	Pro	Ala	Trp	His	Val	Trp	Met
65					70				75					80	
Thr	Phe	Lys	Gln	Ser	Thr	Ala	Trp	Met	Leu	His	Met	Ala	Val	Arg	Asp
			85					90						95	
Leu	Ile	Arg	Ala	Val	Phe	Leu	Cys	Asp	Met	Ser	Val	Phe	Asp	Ala	Tyr
			100					105					110		
Met	Glu	Pro	Gly	Pro	Arg	Arg	Gln	Ser	Ser	Leu	Phe	Gln	Trp	Glu	Asn
	115					120						125			
Ser	Arg	Ala	Leu	Cys	Ser	Ala	Pro	Ala	Cys	Asp	Ile	Ile	Pro	Gln	Asp
	130				135					140					
Glu	Ile	Ile	Pro	Arg	Ala	His	Cys	Arg	Leu	Leu	Cys	Ser	Gln	Gln	Pro
145				150					155					160	
Phe	Glu	Val	Val	Glu	Lys	Ala	Cys	Arg	Ser	Tyr	Ser	His	Val	Val	Leu
			165					170						175	
Lys	Glu	Val	Arg	Phe	Phe	Asn	Leu	Gln	Ser	Leu	Tyr	Pro	Leu	Leu	Lys
	180					185							190		
Asp	Pro	Ser	Leu	Asn	Leu	His	Ile	Val	His	Leu	Val	Arg	Asp	Pro	Arg
	195				200							205			
Ala	Val	Phe	Arg	Ser	Arg	Glu	Arg	Thr	Lys	Gly	Asp	Leu	Met	Ile	Asp
	210				215						220				

Ser Arg Ile Val Met Gly Gln His Glu Gln Lys Leu Lys Lys Glu Asp
 225 230 235 240
 Gln Pro Tyr Tyr Val Met Gln Val Ile Cys Gln Ser Gln Leu Glu Ile
 245 250 255
 Tyr Lys Thr Ile Gln Ser Leu Pro Lys Ala Leu Gln Glu Arg Tyr Leu
 260 265 270
 Leu Val Arg Tyr Glu Asp Leu Ala Arg Ala Pro Val Ala Gln Thr Ser
 275 280 285
 Arg Met Tyr Glu Phe Val Gly Leu Glu Phe Leu Pro His Leu Gln Thr
 290 295 300
 Trp Val His Asn Ile Thr Arg Gly Lys Gly Met Gly Asp His Ala Phe
 305 310 315 320
 His Thr Asn Ala Arg Asp Ala Leu Asn Val Ser Gln Ala Trp Arg Trp
 325 330 335
 Ser Leu Pro Tyr Glu Lys Val Ser Arg Leu Gln Lys Ala Cys Gly Asp
 340 345 350
 Ala Met Asn Leu Leu Gly Tyr Arg His Val Arg Ser Glu Gln Glu Gln
 355 360 365
 Arg Asn Leu Leu Leu Asp Leu Leu Ser Thr Trp Thr Val Pro Glu Gln
 370 375 380
 Ile His
 385

<210> 2
 <211> 2032
 <212> DNA
 <213> H. sapiens

<400> 2
 ggctcgaggc caggatgcct ccagtcctggg ggaaaatgct tcctcatttg cttctcccag 60
 cccacctcaa gcagtcctccc cacccttga gtctcagcag tgtaaagct gttactttca 120
 cagcttcttg ggagcgagtg ctttctcaag cccgtcttgc aaggtcttcc acttcagcac 180
 aatgctactg cctaaaaaaa tgaagctcct gctgtttctg gtttcccaga tggccatctt 240
 ggctctattc ttccacatgt acagccacaa catcagctcc ctgtctatga aggcacagcc 300
 cgagcgcatg cacgtgctgg ttctgtcttc ctggcgctct ggctcttctt ttgtggggca 360
 gctttttggg cagcaccocag atgttttcta cctgatggag cccgcctggc acgtgtggat 420
 gaccttcaag cagagcaccg cctggatgct gcacatggct gtgcgggatc tgatacgggc 480
 cgtcttcttg tgcgacatga gcgtctttga tgcctacatg gaacctgggc cccggagaca 540
 gtccagcctc ttccagtggt agaacagccg ggccctgtgt tctgcacctg cctgtgacat 600
 catccacaaa gatgaaatca tccccgggc tctactgcag ctctgtgca gtcaacagcc 660
 ctttgagggt gtggagaagg cctgccgctc ctacagccac gtggtgctca aggaggtgcg 720
 cttcttcaac ctgcagtcct tctaccgct gctgaaagac cctccctca acctgcata 780
 cgtgcacctg gtccgggacc cccgggccgt gttccgttcc cgagaacgca caaagggaga 840
 tctcatgatt gacagtcgca ttgtgatggg gcagcatgag cagaaactca agaaggagga 900
 ccaaccctac tatgtgatgc aggtcatctg ccaaagccag ctggagatct acaagaccat 960
 ccagtccttg cccaaggccc tgcaggaacg ctacctgctt gtgcgctatg aggacctggc 1020
 tcgagccctt gtggcccaga cttcccgaat gatatgaattc gtgggattgg aattcttgcc 1080
 ccattttcag acctgggtgc ataacatcac ccgaggcaag ggcatgggtg accacgcttt 1140
 ccacacaaat gccagggatg cctttaatgt ctcccaggct tggcgctggt ctttgcccta 1200
 tgaaaagggt tctcgacttc agaaagcctg tggcgatgcc atgaatttgc tgggctaccg 1260
 ccacgtcaga tctgaacaag aacagagaaa cctgttgctg gatcttctgt ctacctggac 1320
 tgtccctgag caaatccact aagaggggtg agaaggcttt gctgccacct ggtgtcagcc 1380
 tcagtcactt tctctgaatg cttctgagcc ttgcctacat ctctgagcct taactacatg 1440
 tctgtgggta tcacactgag tgtgagttgt gtccacacgt gctcaagcag aaggactttt 1500
 gtgtccatgc ttgtgtctag aaaacagact ggggaacctt atgtgagcag cacatccac 1560
 cagtgaaca gggattgct cttcttctt tcttgatctt cctgtctggg cagacttcag 1620
 agactttgtg gcctggaggc ctattaagca cgacacagta tcagtggat tgatccataa 1680

acctccctgt	ccacatcttg	cccaatgggg	aatggatctt	tcaccaaaga	gctcaccagc	1740
atthttccaca	gagatgcaaa	ttctgagccc	ttggagttcc	cagtggattc	aaggaaggaa	1800
gtgggaacaa	ggttggatgc	ctacttatga	gcttgaccat	cacagctatc	ggtaatcaga	1860
aatatgaaac	aaaatctctg	cacaaaagag	caagctctta	agttcacagg	gtgcctgggc	1920
tgcatttgaa	tatcacttcc	cctctgcatt	ttcccatcac	atagaagact	ttgacctgtg	1980
aagctgccat	ctgttaatac	taaaattccc	aaataagaaa	aaaaaaaaaa	aa	2032

<210> 3
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<221> misc_feature
 <222> (1)...(29)
 <223> n = inosine

<400> 3	
twytwyctnt	wygarccnct ntggcayst
	29

<210> 4
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<221> misc_feature
 <222> (1)...(29)
 <223> n = inosine

<400> 4	
ctnaanctns	tncwrcnct nmgnraycc
	29

<210> 5
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<221> misc_feature
 <222> (1)...(29)
 <223> n = inosine

<400> 5	
ggrtyncna	snagywgnas nagnttnag
	29

<210> 6
 <211> 26
 <212> DNA
 <213> Artificial Sequence

```

<220>
<223> primer

<221> misc_feature
<222> (1)...(26)
<223> n = inosine

<400> 6
agrtcytcrt ancknagnag nakrta 26

<210> 7
<211> 37
<212> DNA
<213> H. sapiens

<400> 7
aaactcaaga aggaggacca accctactat gtgatgc 37

<210> 8
<211> 47
<212> DNA
<213> H. sapiens

<400> 8
ataaagcttg tggatttggt caggacatt ccaggtagac agaagat 47

```